

MICROWAVE ASSOCIATES, INC.

BURLINGTON, MASSACHUSETTS Western Union FAX+TWX Surlington, Mass. 342-69awning 2-3000 DIFFUSED SILICON MESA COMPUTER DIODES

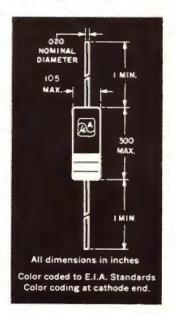


SUBMINIATURE FAST SWITCHING HIGH CONDUCTANCE SILICON DIODE

These diodes are designed for use in high-current pulse circuits including memory core drivers, clampers, gates and logic circuits. Low values of forward voltage drop, junction capacitance, and reverse current allows greater flexibility in circuit design, especially where large numbers of diodes are required.

MAXIMUM RATINGS @ 25°C	SYMBOL	MIN	MAX	UNITS
Average Forward Current @ 25°C Peak Surge Current Reverse Voltage Steady-State DC Power Dissipation	i surge ^V R P		250 750 36 400	mAdc mAdc Vdc mW
Operating & Storage Temperature Range Derating above 25°C (free air)	т	-65	+175 2.7	°C mW/°C

IN920



LECTRICAL SPECIFICATIONS @ 25°C

	TEST	TEST CONDITIONS	SYMBOL	MIN	MAX	UNITS
	Forward Voltage Drop	IF = 500 mA	VF	0.7	1.00	Vdc
	Reverse Current	$V_{R} = -30 \text{ V}$ $T = 150^{\circ}\text{C}$	I _R		.25 50	μAdc μAdc
	Capacitance*	$V_R = -9 V$	c-9		7.5	pf
)	Recovery Time	$I_F = 500 \text{ mA}$ switched to $V_R = -30 \text{ V}$	t _{rr}		.3	μsec.

^{*} Average case capacitance is 0.30 pf.

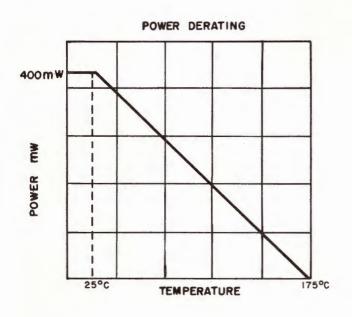
These specifications are in accordance with MIL-S-19500B.

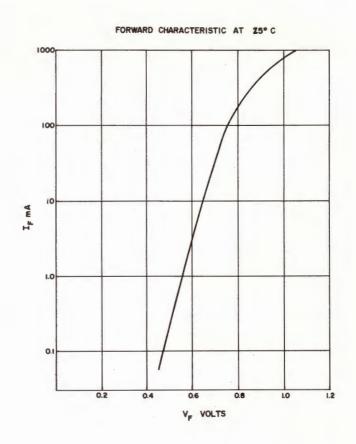
to 3 ma.

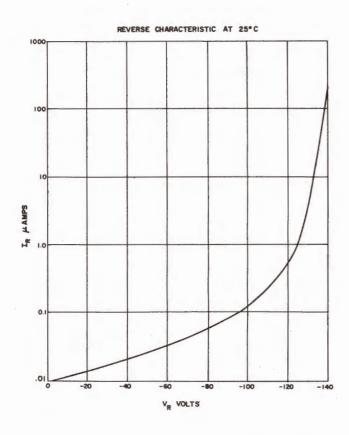
through 1000 ohm loop

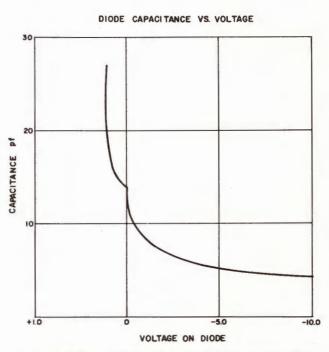
All specifications listed herein are subject to modification.

TYPICAL ELECTRICAL CHARACTERISTICS









NOTE CHANGE IN VOLTAGE SCALE, CAPACITANCE IS CONTINUOUS THROUGH ZERO VOLTAGE.